

Fisheries
Limnology
Resource Planning
Vessel Surveys

30 June 1983

MEMO TO: Dr. Wm Weiss, Institute for Water Quality Research

FROM: T. Kelly

SUBJECT: Sampling of Lake Bellaire, 29 June 1983.

Attached to this memo are my field notes from yesterday's sampling of Lake Bellaire. The phytoplankton sample is now on its way to Dr. Peter G. Meier of Ann Arbor for determination of algae species and relative abundance. He quoted a price of \$40.00 for this work which I think is quite reasonable. I will have him send the results and billing to you.

The chemistry samples will be sent to Mark Keiser at M.T.U. this week.

I was not able to determine DO concentrations due to a broken DO bottle in the Hach Kit I was using. A replacement has been ordered and I will return to Lake Bellaire next week to sample for DO. I will take another temperature profile and secchi disc reading at the same time. I will return the IWQR equipment to you after I have re-sampled the lake.

cc: Comfort
Peterson
Canale

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29 JUNE 1983

LAKE BELLAIRE

1535 Lv. Follos Marina, Bellaire Singlehanded

1607 On station, Just SW of deep hole - off Cottage Drive
"LB-5"Air temp: 77°F

WATER temp: Surface: 22.5° (mercury therm.) 77.6° (meter)

10 ft 72.0°

20 58.0°

30 56.0°

40 48.5°

50 46.5°

60 45.0°

70 45.0°

80 44.0°

Bottom → 87 42.0°

Able to read electric
temp probe to nearest
 $\frac{1}{2}$ degree onlySecchi: 9.0 ftWater has green color. Choppy waves - to $\frac{1}{2}$ ft.
Wind from 130°, velocity 8-11 mph. Altostratus
cover 80% of sky.Phytoplankton sample (1 liter) taken as composite of
1, 2, 3 meter depths ($\frac{1}{3}$ liter each)Sampler for $P\bar{E}$, Cl chemistry taken at 3 ft & 85 ft
No H_2S smell in bottom water sample.

No dissolved oxygen measurements due to broken bottle top.

1710 - Finished w/ station

